

SECTION 14450

VEHICLE LIFT

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Furnish and install 2-post hydraulically equalized surface lift for vehicles.

1.2 QUALITY ASSURANCE

- A. Compliance standards:
 - 1. ANSI/ALI ALCTV testing compliance.
 - a. ALI/ETL certification.
 - 2. Applicable standards and safety codes:
 - a. ASME
 - b. AISI
 - c. ASTM
 - d. OSHA
 - e. ASA
 - f. NEC
 - g. AWS
 - h. NEMA
- B. Installer qualifications: Licensed or authorized in writing by manufacturer.

1.3 SUBMITTALS

- A. Product data:
 - 1. Vehicle lift product literature, including catalog cuts and manufacturer's specifications.
- B. Shop drawings:
 - 1. Vehicle lift layout and details.
 - 2. Identify coordination requirements with other trades.
- C. Project information:
 - 1. ALI/ETL certification.
 - 2. Operation and Maintenance Data.
 - 3. Warranty.

1.4 WARRANTY

- A. Vehicle lift, complete except cylinders: 5 years.
- B. Cylinders: Lifetime of vehicle lift.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Materials shall be delivered, stored and handled in accordance with the manufacturer's instructions and recommendations.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Acceptable manufacturer's:
 - 1. Vehicle lift:
 - a. Base:

- 1) Mohawk.
 - b. Optional:
 - 1) Rotary.
 2. Other manufacturers desiring approval comply with Document 00440.
- B. Vehicle lift:
1. Type: 2-post surface lift.
 2. Capacity: Minimum 9,00 LBS.
 3. Lifting speed: Nominally 45 seconds.
 4. Motor rating: 2 horsepower.
 - a. 208-230 volt.
 - b. 60 HZ, 3 phase.
 5. Synchronization: Hydraulic fluid displacement.
 - a. Using no chains, cables or overhead obstructions.
 6. Arm pad height: Minimum 3 - 1/2 IN.
 7. Lifting height: 6 FT.
 8. Arm height at full rise: 6 FT - 3 1/2 IN
 9. Pad height with adaptors: 7 FT - 1 IN maximum.
 10. Overall width: 11 FT - 10 IN, adjustable.
 11. Width between posts: 10 FT, adjustable.
 12. Width between carriage lifting arms: 8 FT - 10 IN, adjustable.
 13. Column height: 8 FT - 7 IN.
 14. Overall hydraulic line height: Adjustable to accommodate ceiling height.
 15. Weight: Nominally 2,500 LBS.
 16. Anchoring system: 3/4 x 5 IN Wej-it bolts.
 - a. Minimum 16.
 17. Mechanical safety locks: Automatic at all positions, starting maximum 5 IN above the floor.
 18. Hydraulic safety systems: Automatic at all positions.
 19. Swing arm restraints: Automatic upon ascent.
 20. Cylinders: 2.
 - a. One per column.
 21. Drive system: #646 leaf chain routed over cylinders.
 22. Frame adapters: Stackable.
 - a. 3 IN: 4.
 - b. 6 IN: 4.
 23. Carriage bearings: Steel.
 - a. 8 per carriage.
 - b. Double sealed.
 - c. Self lubricating.
 24. Floor access between posts: Clear and unobstructed.
 25. Mohawk Model System I.
 - a. National Stock Number 4910-01-408-5620.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Verify concrete support slab complies with manufacturer's requirements, including:
 1. Minimum 4000 PSI compressive strength.
 2. Minimum 4-1/2 IN thick.
- B. Correct any substrate defects and verify coordination with other trades before start of installation.

3.2 INSTALLATION

- A. Installation shall comply with manufacturer's instructions and recommendations.
- B. Test and adjust completed installation until lift is fully secure and operating in all aspects in accordance with applicable standards and codes, and manufacturer's requirements.
 - 1. Test operate lift continuously with full-rated capacity load for minimum 30 minutes.
 - 2. Adjust equipment as required for complete and safe operation of lift.

3.3 INSTRUCTION AND DEMONSTRATION

- A. Instruct Government's operating and maintenance personnel in the proper use, operation and maintenance of the lift.
 - 1. Review operation and maintenance data, including procedures to be followed when checking for sources of operational failures or malfunctions.
 - 2. Provide Government with requirements for a complete maintenance program.
- B. Demonstrate vehicle lift operation with Government's operating and maintenance personnel present, to show that controls, operating components and safety devices are functioning properly.

END OF SECTION